Coronis Fusion 10MP

用户指南

BARCO

Visibly yours

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欢迎您！

感谢您选择 CORONIS FUSION 10MP 显示器！

利用专有的 “SmoothGray” 技术精细地呈现灰度曲线，CORONIS FUSION 10MP 显示器 使难以察觉的细节和病灶比以往任何时候都要明显。超高的亮度和对比度水平，加上极深的黑色和完美的几何图形，带给您对最高灰度精度的全新认识。

借助 30 英寸的无缝 LCD 显示屏，您可以轻松对比过去和现在的乳腺 X 线摄影，且没有中央边框的烦恼。另外，它还能让您在单个屏幕上以极高的诊断精度检查胸部 X 射线影像或 40 全分辨率 CT 或 MR 影像。

集成的 I-Guard 传感器使质量保证工作轻而易举。结合在线 MediCal QAWeb 解决方案，I-Guard 将对您的显示器执行免干预的 DICOM 校准、质量保证测试和远程评估。

请使用本指南中的说明来安装您的 CORONIS FUSION 10MP 显示器，亲身体验以上所有超凡的功能吧！

本指南中使用了以下标志：

	警告：人身伤害风险		注意：产品损坏风险
	重要说明或指示		注意
	建议、提示		附加信息

请您在操作 CORONIS FUSION 10MP 显示器 之前，完整阅读从 第 52 页 开始的安全信息。

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目录

欢迎您！ 3
目录 5
包装内容 9
部件、控制器和连接器 10
前视图 10
后视图 11
显示器安装 12
拆下罩盖 12
解除高度调校机制 14
调节显示器位置 15
连接信号电缆 15
连接电源线 16
布线 17
重装罩盖 18
VESA 安装 19
首次启动 21
日常操作 22
日常操作建议 22
按键指示灯 24
待机切换 25
打开 OSD 菜单 27
OSD 菜单导航 28
高级操作 29
OSD 菜单位置 29
OSD 菜单语言 29
OSD 菜单自动关闭功能 30
电源状态指示灯 30

按键指示灯 31
电源锁功能 31
按键音 32
基于 USB 的以太网 32
DDC HID 设备 33
DPMS 模式 34
亮度目标 35
查看模式 35
显示功能 36
环境光线补偿 (ALC) 38
阅片室 39
连续 ALC 40
图像缩放 40
图像来源选择模式 41
视频输入信号 42
视频编码模式 43
灰度转换模式 45
EDID 定时 46
显示器信息 47
显示器状态 47
清洁显示器 48
前玻璃基板 48
外壳 49
重新包装说明 50
重要信息 52
安全信息 52
环保信息 55
合规信息 58
EMC 通知 59
标志说明 64
法律免责声明 66

技术规格 67
开源许可信息 70

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包装内容

CORONIS FUSION 10MP 显示器随附有：

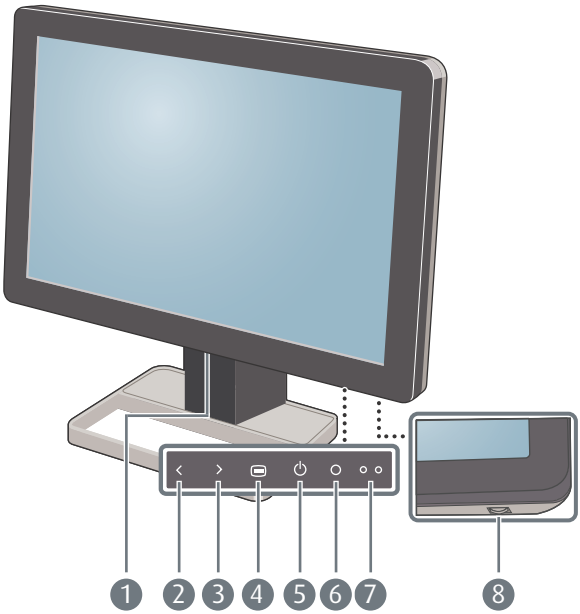
- 本 CORONIS FUSION 10MP 显示器指南
- 一张系统光盘
- 两根 DVI 电缆
- 两根 DisplayPort 电缆
- 一根 USB 电缆
- 一套交流电源线
- 一个外部电源

如果您订购了 Barco 显示控制器，该控制器也连同其附件一起装在包装盒中。在系统 CD 中提供了专门的用户指南。

请保留原包装。原包装专为本显示器设计，可在运输过程中提供理想防护。

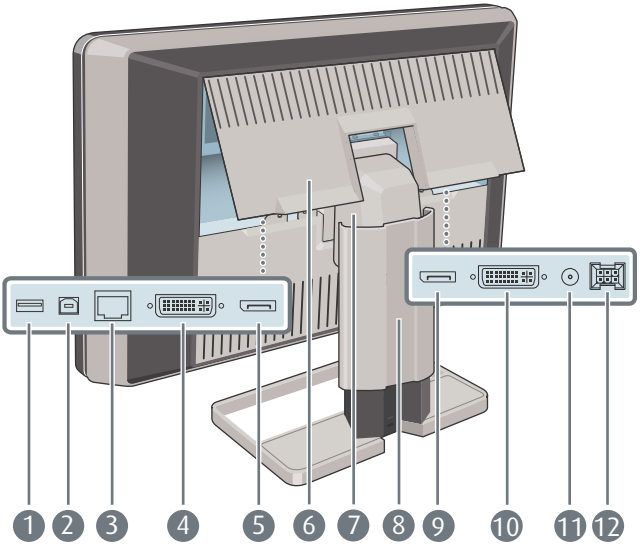
部件、控制器和连接器

前视图



1	USB 下游连接器	2	向左 / 向上键
3	向右 / 向下键	4	菜单 / 输入键
5	待机 / 取消键	6	环境光线传感器
7	电源状态指示灯	8	控制轮

后视图



1	USB 下游连接器	2	USB 上游连接器
3	以太网连接器 （请参见下文说明）	4	DVI 1 视频输入
5	DisplayPort 1 视频输入	6	连接器舱盖
7	颈盖	8	显示器支架罩
9	DisplayPort 2 视频输入	10	DVI 2 视频输入
11	+5 VDC，0.5 A 电源输出	12	+24 VDC 电源输入

以太网接口用于维护目的，不支持用户应用程序。

显示器安装

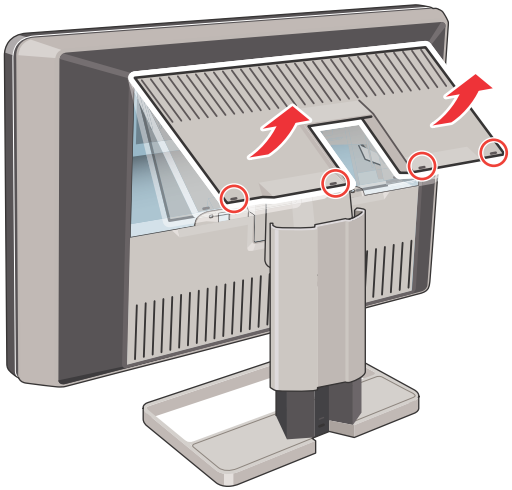
在安装 CORONIS FUSION 10MP 显示器 并连接所有必要的电缆前，请确保您的电脑中已物理安装合适的显示控制器。如使用 Barco 显示控制器，请参考系统 CD 中提供的专用用户指南。

拆下罩盖

连接器舱盖

要使用连接器，应当先拆下连接器舱盖。要拆下舱盖，请按以下步骤执行操作：

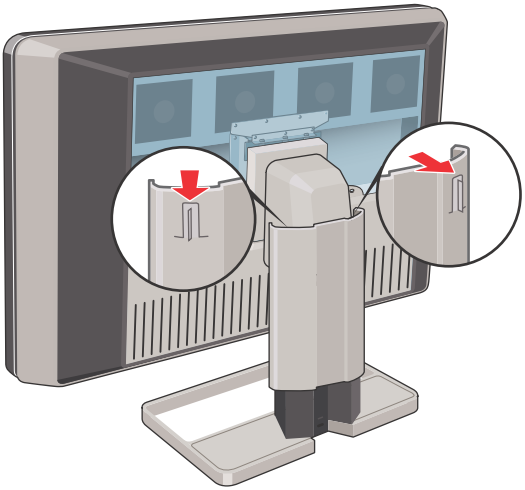
1. 轻轻提起连接器舱盖的一个手柄上的固定夹，松开舱盖的一侧。
2. 在舱盖的另一侧执行相同的操作。
3. 拆下舱盖。



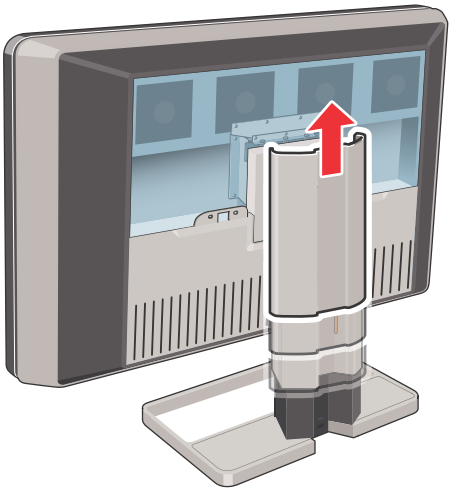
显示器支架罩

要进入布线通道，应当拆下显示器支架罩。可按照以下步骤执行此操作：

1 轻轻按住罩盖上方内侧的固定夹。



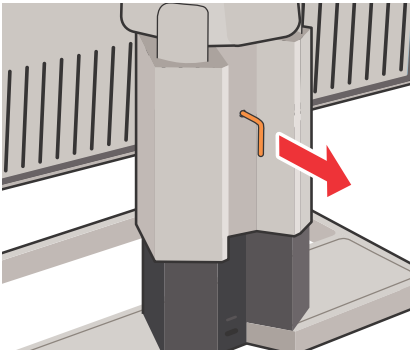
2 一边按住固定夹，一边向上滑动罩盖。



解除高度调校机制

显示器支架中的高度定位系统已在工厂中用红色搭钩锁定，以防止运输过程中损坏。在调节显示器高度位置前您必须先拆下此搭钩。

1 抓紧下推的显示器面板，同时拔出显示器支架中的红色搭钩。

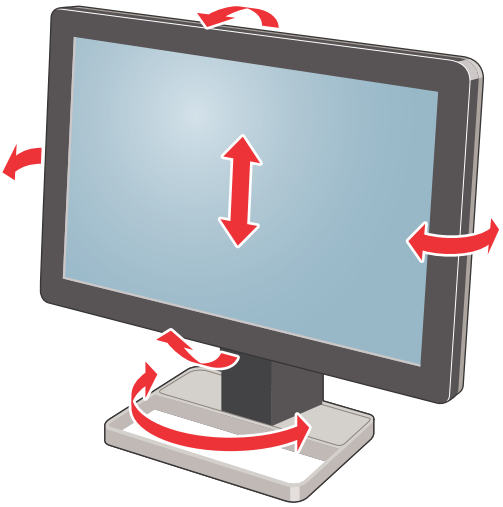


为保存搭钩以备在将来可能进行的运输中使用，请将这一带有红色末端的短搭钩插回显示器支架中。

调节显示器位置

显示器的高度定位系统现在已解锁，您可以根据需要倾斜、旋转、抬高和降低显示器。

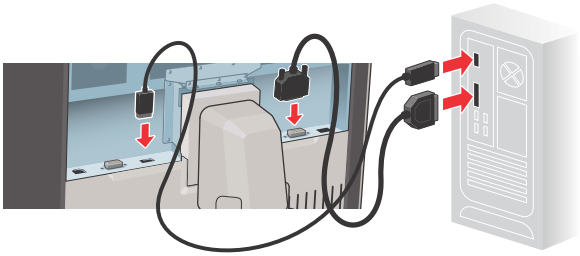
> ⚠ 显示器与支架相连时请勿试图旋转显示器。否则可能会严重损坏显示器及其支架。



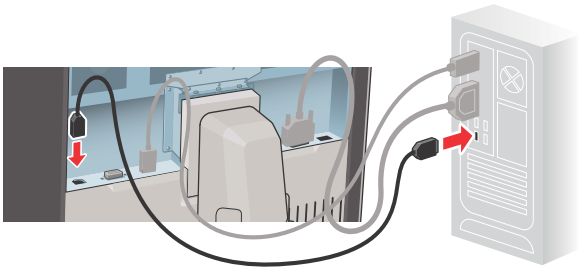
连接信号电缆

1. 使用一根随附的 DVI 或 DisplayPort 电缆，将显示控制器的一头连接到 DVI 1 或 DisplayPort 1 连接器。
2. 使用一根随附的 DVI 或 DisplayPort 电缆，将显示控制器的另一头连接到 DVI 2 或 DisplayPort 2 连接器。

> ! 显示器各侧可连接不同的视频输入（可在一侧连接 DVI，另一侧连接 DisplayPort）。显示器的两侧也可连接相同的视频输入，但每一侧只允许连接一个视频输入。



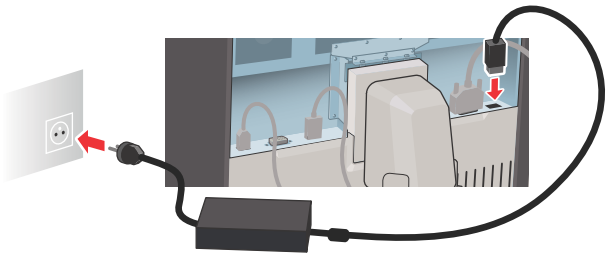
3 如果您想要利用显示器的 USB downstream 连接器，请使用随附的 USB 2.0 电缆将电脑的 USB downstream 连接器连接到显示器的 USB upstream 连接器。



连接电源线

1 将随附的外部直流电源连接到您 Coronis Fusion 10MP 显示器的 +24 VDC 电源输入。

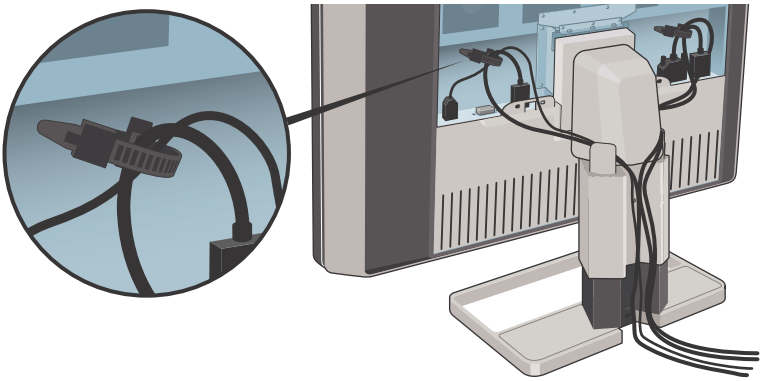
2 使用包装中提供的适配电源线将外部直流电源的另一端插入**接地**电源插座。



布线

通过显示器支架中的布线通道来分配所有连接的电缆。

连接器舱内的电缆扎带让您能够固定电缆以便更好地保护它们。

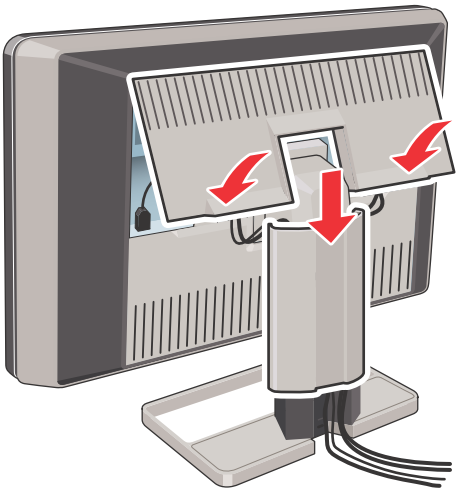


重装罩盖

1 向下滑动显示器支架罩将它重新装好。当显示器支架罩固定到位时，您将听到罩盖固定夹发出 “ 咔嗒 ” 声。

> 重装罩盖时请留意是否所有电缆都位于电缆通道内。

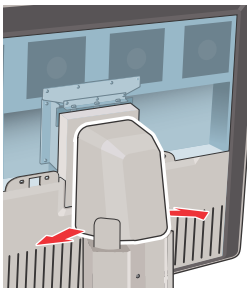
2 重新安装连接器舱盖时，将舱盖顶端滑入到位，然后推动舱盖底部。当连接器舱盖固定到位时，您将听到舱盖固定夹发出 “ 咔嗒 ” 声。



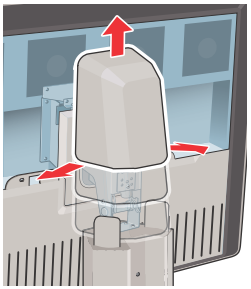
VESA 安装

面板与支架标准相连，可兼容 VESA 100 mm 标准。因此，它可以配合经 VESA 认证的支撑臂使用。本章将向您介绍如何将面板与支架分离以及如何将其连接到支撑臂上。如果您不使用支撑臂，可跳过本章。

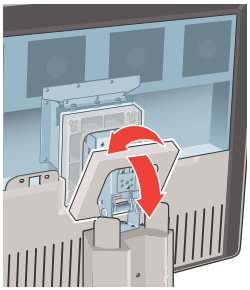
1 轻轻拉开罩盖下方两侧。



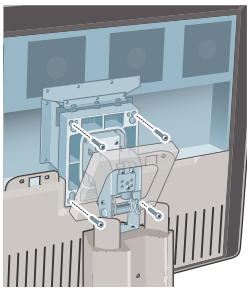
2 抓住拉开的下侧，同时向上滑动罩盖。



3 提起遮盖了面板到支架固定位置的塑料框。将它转动 45 度，露出固定螺丝。



4 松开将面板固定到支架的四个固定螺丝。



5 使用 4 个 M4 x 10 mm 螺丝将面板**牢固地**连接到支撑臂上。

⚠ 您应当横向安装面板。可采用但不支持纵向位置。

⚠ 使用至少可承重 18 kg (39.68 lb) 的支撑臂。承重能力过低可能会使面板跌落，对儿童或成人造成严重伤害并对设备造成严重损坏。

⚠ 切勿通过推拉显示屏本身来移动连接在支撑臂上的显示屏。正确的做法是，确认该支撑臂配有 VESA 认证的手柄，并使用该手柄移动显示屏。

请参阅支撑臂的使用说明书，了解更多信息和说明。

首次启动

现在您就可以首次启动您的 CORONIS FUSION 10MP 显示系统。

1. 按第 25 页的“**待机切换**”中所述打开 CORONIS FUSION 10MP 显示器。
2. 打开连接到显示器的计算机。

如果您已正确安装显示器和显示控制器，那么，开机程序一结束就会显示 Windows 启动消息。

首次启动时，您的 CORONIS FUSION 10MP 显示器将在基本视频模式下按默认的刷新率运行。
如果使用 Barco 显示控制器，请参考系统 CD 上提供的专用用户指南来安装驱动程序、软件和文档。安装完毕后，显示器将自动检测连接的视频输入信号并应用正确的视频模式和刷新率。

日常操作

日常操作建议

最大限度地延长显示器的使用寿命

启用您显示器的显示器电源管理系统 (DPMS)，使显示器在指定时间段内未使用时自动关闭背光，这将最大限度地延长其诊断使用寿命。默认情况下，显示器已启用 DPMS，但仍需在您的工作站上激活它。要执行此操作，请转到 “ 控制面板 ” 中的 “ 电源选项属性 ”。

Barco 建议将 DPMS 激活时间设置为在未使用 20 分钟后。

使用屏幕保护程序避免图像残留

当同一内容长时间停留在 LCD 的相同屏幕区域时，可能会造成某种形式的图像残留。

您可以使用屏幕保护程序避免或大幅减少这种现象的发生。您可以在您工作站的 “ 显示器属性 ” 窗口中激活屏幕保护程序。

Barco 建议将屏保设置为在未使用 5 分钟后激活。有效的屏幕保护程序会显示移动的内容。

如果您要连续几小时使用同一图像或带有静态图元的应用程序（这样不会激活屏幕保护程序），请定期变换图像内容以避免静态元素残留。

了解像素技术

LCD 显示器使用基于像素的技术。作为 LCD 制造中的正常公差，有限数量的像素可能会保持不亮或常亮状态，这不会影响产品的诊断性能。为确保最佳的产品质量，Barco 对其 LCD 显示面板采用严格的选择标准。

要了解更多有关 LCD 技术和图像坏点的信息，请参阅 www.barco.com/medical 上提供的专业白皮书。

提高用户舒适度

每个 Barco 多头显示器系统都采用当今最高规格的色彩匹配。

Barco 建议将色彩匹配的显示器保持在一起。另外，务必以相同速率使用多头配置的所有显示器，以便在系统的整个经济寿命期内保持色彩匹配。

最佳质量保证

“MediCal QAWeb” 系统提供高级质量保证在线服务，提供最高的诊断可信度和最长的运行时间。

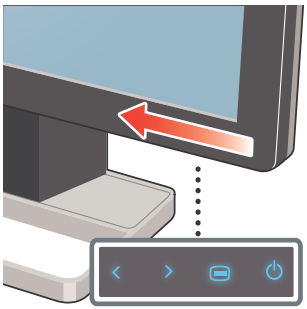
Barco 推荐安装 MediCal QAWeb Agent，并至少使用默认 QAWeb 政策。该政策包括定期校准。升级到 MediCal QAWeb 服务器将提供更多的可能性。
请访问 www.barco.com/medical/qa 了解更多信息，并注册免费的 MediCal QAWeb Essential （基本）级别。

按键指示灯

在默认情况下，按键指示灯将变暗，使其不可用。

要使按键亮起：

1 将手指轻轻扫过显示器下方右手侧。

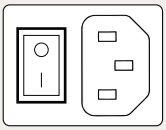


之后按键将亮起并可用于进一步操作。但是，如果在亮起后的 5 秒钟内未进行任何操作，按键指示灯将再次变暗。

按键指示灯自动变暗功能可通过 OSD 菜单禁用。请参阅第 31 页的 **“ 按键指示灯 ”**，了解关于该操作的详细说明。

待机切换

连接的电源也提供一个可用于彻底关闭电源的开关。要使用显示屏，请确保打开此电源开关。为此，可以将电源上的开关按到 “|” 位置。



在待机模式下打开显示器，或在开机模式下将显示器切换到待机模式，都可以通过使用按键或控制轮来完成。

使用按键打开显示器：

1. 按上文所述亮起按键指示灯。
2. 当按键指示灯亮起时，触摸待机 / 取消 ⏻ 键约 2 秒钟。

使用按键将显示器切换到待机模式：

1. 按上文所述亮起按键指示灯。
2. 当按键指示灯亮起时，触摸待机 / 取消 ⏻ 键，将会弹出一个窗口。再次按此按钮确认。

使用控制轮打开显示器：

1 按下控制轮约 2 秒钟。

使用控制轮将显示器切换到待机模式：

1 按控制轮一次，将弹出一个小窗口。再次按控制轮确认。

之后显示器将打开或切换到待机模式。当显示器**打开**时，电源状态指示灯将**变暗**。当显示器进入**待机模式**时，电源状态指示灯为**橙色**。

电源状态指示灯可通过 OSD 菜单启用，启用后，当显示器**打开**时，指示灯将变为**蓝色**。请参阅第 30 页的 **“ 电源状态指示灯 ”**，了解关于该操作的详细说明。

在停电后恢复供电的情况下，您的显示器将始终启动为断电前的电源模式（即待机或开机）。这可保护您的显示器，避免无意的图像残留问题。

打开 OSD 菜单

通过 OSD 菜单，您可以配置不同的设定项，使 CORONIS FUSION 10MP 显示器满足您工作环境中的需要。您也可以通过 OSD 菜单来检索显示器的一般信息及其当前的配置设定。

使用按键打开 OSD 菜单：

1. 如果尚未准备好执行此操作，请按上文所述打开显示器。
2. 按上文所述亮起按键指示灯。
3. 当按键指示灯亮起时，触摸菜单 / 输入 ⊟ 键。

使用控制轮打开 OSD 菜单：

1. 如果尚未准备好执行此操作，请按上文所述打开显示器。
2. 快速按下控制轮。

此时 OSD 主菜单将在屏幕的右下角打开。但是，如果在接下来的 90 秒内不进行任何其他操作，OSD 菜单将再次消失。

OSD 菜单自动关闭功能可通过 OSD 菜单禁用。请参阅第 30 页的 **“OSD 菜单自动关闭功能”**，了解关于该操作的详细说明。

OSD 菜单的位置可在 OSD 菜单中更改。请参阅第 29 页的 **“OSD 菜单位置”**，了解关于该操作的详细说明。

OSD 菜单导航

关于 OSD 菜单导航

OSD 菜单导航可以通过使用按键或控制轮来完成。

使用按键在 OSD 菜单中导航：

- 使用向右 / 向下 › 和向左 / 向上 ‹ 键在（子）菜单中移动、更改参数值或做出选择。
- 要进入子菜单或确认调整和选择，请使用菜单 / 输入 ⊖ 键。
- 使用待机 / 取消 ⏻ 键取消调整或退出 （子）菜单。
- 触摸待机 / 取消 ⏻ 键约 2 秒钟，退出 OSD 菜单。

使用控制轮在 OSD 菜单中导航：

- 旋转控制轮在菜单中移动、更改参数值或做出选择。
- 要进入子菜单或确认调整和选择，请快速按下控制轮。
- 按住控制轮约 2 秒钟取消调整或退出 （子）菜单。

高级操作

OSD 菜单位置

关于 OSD 菜单的位置

在默认情况下，OSD 菜单在屏幕的右下角打开。不过这一位置可以更改。可以从多个预定义的位置中选择。

要更改 OSD 菜单的位置：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **用户界面** > **菜单**菜单。
3. 进入**位置**子菜单。
4. 选择一个可用的 OSD 菜单位置并确认。

OSD 菜单语言

关于 OSD 菜单语言

在默认情况下，OSD 菜单使用的语言为英语。不过 Coronis Fusion 10MP 显示器的 OSD 菜单还提供多种其他语言选择。

要更改 OSD 菜单语言：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **用户界面** > **菜单**菜单。
3. 进入**语言**子菜单。
4. 选择一个可用语言并确认。

OSD 菜单自动关闭功能

关于 OSD 菜单自动关闭功能

在默认情况下，OSD 菜单将在闲置约 90 秒后自动消失。不过该功能可以禁用，使 OSD 菜单留在屏幕上直至手动关闭。

要启用 / 禁用 OSD 菜单自动关闭功能：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **用户界面** > **菜单**菜单。
3. 进入**自动关闭**子菜单。
4. 根据需要选择**启用 / 禁用**并确认。

电源状态指示灯

关于电源状态指示灯

在默认情况下，当显示器打开时，电源状态指示灯将变暗。这一行为可以更改，这样，当显示器打开时，电源状态指示灯将为**蓝色**。

当显示器处于待机模式时，即使是在电源状态指示灯禁用的情况下，电源状态指示灯将始终变为橙色。

要启用 / 禁用电源状态指示灯：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **用户界面** > **指示灯**菜单。
3. 进入**电源状态**子菜单。
4. 根据需要选择**启用 / 禁用**并确认。

按键指示灯

关于按键指示灯

默认情况下，如果在按键指示灯亮起后 5 秒钟内未进行任何操作，指示灯将再次变暗。不过这一行为可以更改，这样，按键指示灯将始终打开或始终关闭。

配置按键指示灯：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **用户界面** > **指示灯**菜单。
3. 进入**按键**子菜单。
4. 根据需要选择**自动 / 始终打开 / 始终关闭**并确认。

电源锁功能

关于电源锁功能

通过启用电源锁功能，使 CORONIS FUSION 10MP 显示器强行保持开机状态。这就是说，在电源锁功能再次禁用之前无法切换到待机模式。

要启用 / 禁用电源锁功能：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **用户界面** > **控件**菜单。
3. 进入**电源锁**子菜单。
4. 根据需要选择**启用 / 禁用**并确认。

按键音

关于按键音

在默认情况下，每次触摸按键时按键都将发出蜂鸣声。不过这一声音可以禁用，这样，在使用按键时就不会听到任何声音。

要启用 / 禁用按键音：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **用户界面** > **控件**菜单。
3. 进入**声音**子菜单。
4. 根据需要选择**启用 / 禁用**并确认。

基于 USB 的以太网

关于基于 USB 的以太网

默认情况下，基于 USB 的以太网处于禁用状态。但并不会禁用 USB 集线器，且可以使用显示屏的 USB downstream 连接器和其他与之相连接的外部设备 （键盘、鼠标等）。

请注意，为使用此功能，需要将电脑 USB downstream 连接器连接到显示器的 USB upstream 连接器。

启用基于 USB 的以太网后，内部 CORONIS FUSION 10MP 显示器处理器即可通过 USB 与相连电脑直接通信。

仅当您使用非 Barco 产品的显示控制器时推荐启用 USB 终点。如使用 Barco 显示控制器，将会通过连接的视频电缆自动开始通信。

启用 / 禁用基于 USB 的以太网：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **连接**菜单。
3. 进入**基于 USB 的以太网**子菜单。
4. 根据需要选择**启用 / 禁用**并确认。

DDC HID 设备

关于 DDC HID 设备

默认情况下，DDC HID 设备处于启用状态。这将使内部 CORONIS FUSION 10MP 显示器处理器可以通过 USB 与相连电脑直接通信。

禁用 DDC HID 设备后，内部 CORONIS FUSION 10MP 显示器处理器将无法与相连电脑通信。但并不会禁用 USB 集线器，且可以使用显示屏的 USB downstream 连接器和其他与之相连接的外部设备（键盘、鼠标等）。

请注意，为使用此功能，需要将电脑 USB downstream 连接器连接到显示器的 USB upstream 连接器。

仅当您使用非 Barco 产品的显示控制器时推荐启用 USB 终点。如使用 Barco 显示控制器，将会通过连接的视频电缆自动开始通信。

启用 / 禁用 DDC HID 设备：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **连接**菜单。
3. 进入 **DDC HID 设备**子菜单。
4. 根据需要选择**启用 / 禁用**并确认。

DPMS 模式

关于 DPMS 模式

在您的显示器上启用显示器电源管理系统 (DPMS) 模式，使显示器在指定时间段内未使用时自动关闭背光，这将最大限度地延长其诊断使用寿命。默认情况下，DPMS 模式可以在您的显示器上启用，但仍需在您的工作站上激活。要执行此操作，请转到您工作站的 “ 电源选项属性 ” 窗口。

Barco 建议将 DPMS 激活时间设置为在未使用 20 分钟后。

DPMS 模式在您的显示器上启用时，还可以使用额外的 OSD 省电功能：休眠。请参阅 第 36 页的 “ **显示功能** ”，了解关于休眠功能及其如何启用的更多信息。

要在您的显示器上启用 / 禁用 DPMS 模式：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **电源管理**菜单。
3. 进入 **DPMS 模式**子菜单。
4. 根据需要选择**启用 / 禁用**并确认。

亮度目标

关于亮度目标

CORONIS FUSION 10MP 显示器的亮度目标可在预定义的范围内调节。更改亮度目标后，显示器将调节背光以达到该目标。

要设置亮度目标：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **校准**菜单。
3. 进入**亮度目标**子菜单。
4. 根据需要设置亮度目标值并确认。

查看模式

关于观看模式

CORONIS FUSION 10MP 显示器可用于两种查看模式：

诊断	此模式提供完全的校准亮度，主要适合在显示器用于诊断目的时使用。
文本	在此模式下，亮度减少到约一半。此模式主要适合在显示器用于文字处理等办公室应用时使用。 请注意，文本模式不会始终保持不变，一旦断电，设备将以诊断模式重启。

由于 CORONIS FUSION 10MP 显示器设计用于诊断环境，因此应始终选择诊断模式。

要选择查看模式：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **校准**菜单。
3. 进入**查看模式**子菜单。
4. 根据需要选择**诊断 / 文本**并确认。

显示功能

关于显示功能

原生的、未经校正的面板将以同等亮度增量显示所有灰度 / 色彩级别。然而，研究表明，在医疗影像中，某些灰度 / 彩色部分要比其他部分包含更多的诊断信息。为反映这些结论，已定义显示功能。这些功能通过校正原有的面板行为，突出了这些包含重要诊断信息的部分。

原生	如果您选择 “ 原生 ”，将不会校正原有的面板行为。
Dynamic Gamma 1.8 Dynamic Gamma 2.2	这些是伽玛函数，转换到这些函数是为了考虑 LCD 显示面板在 “ 黑色 ” 信号驱动时的非零亮度。 它们在 CT 应用中改进低 Hounsfield 值的感知方面尤其有用。
DICOM	DICOM （医学数字成像和通信）是为改进放射学中数字图像的质量和通信而开发的一项国际标准。 简言之，DICOM 显示功能会增强图像中灰度的可视性。 Barco 建议在大多数医疗视像应用中选择 DICOM 显示功能。
用户	当显示功能由 MediCal QAWeb 定义时，将自动选择这一显示功能。

Gamma 1.8 Gamma 2.2	如果显示器要用伽玛 1.8 或 2.2 来代替 CRT 显示器，则从中选择一个显示函数。

要选择显示功能：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **校准**菜单。
3. 进入**显示器功能**子菜单。
4. 选择一个可用的显示功能并确认。

环境光线补偿 (ALC)

关于 ALC

只有在选择了 DICOM 显示功能的情况下才能启用环境光线补偿 (ALC)。因此，请参阅第 36 页的 **“ 显示功能 ”** 正确设置显示功能。

ALC 启用后，将考虑预设的环境亮度修正值，重新计算 DICOM 显示函数。该值由选定的阅片室决定。因此，启用 ALC 时选择现实的阅片室也很重要。这一操作可遵循第 39 页的 **“ 阅片室 ”** 中的指示来完成。

要启用 / 禁用 ALC：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **校准** > **环境亮度**菜单。
3. 进入**环境光线补偿**子菜单。
4. 根据需要选择**启用 / 禁用**并确认。

阅片室

关于阅片室

只有在选择了 DICOM 显示功能的情况下才能选择阅片室。因此，请参阅第 36 页的 **“ 显示功能 ”** 正确设置显示功能。

美国医学物理学家协会 (AAPM) 制定了一个预定义阅片室类型的列表。其中每一个阅片室都由以下参数定义：

- 此类阅片室中允许的最大亮度
- 此阅片室的预设环境亮度修正值

这些参数存储在您的显示器中，它们决定了在环境光线补偿 (ALC) 启用时 DICOM 显示函数的重新计算中需要考虑的预设环境亮度修正值。请参阅第 38 页的 **“ 环境光线补偿 (ALC)”** 启用 ALC。

可用于您的 Coronis Fusion 10MP 显示器的阅片室有：

CR/DR/MAMMO	与计算机放射学、数字放射学或乳房造影诊断阅片室的光线条件对应。此设置的最大环境亮度最低。
CT/MR/NM	与计算机断层扫描、磁共振或核医学扫描诊断阅片室的光线条件对应。
工作人员办公室	与办公室的光线条件对应。
临床观察室	与临床观察诊断阅片室的光线条件对应。
急诊室	与急诊室的光线条件对应。
手术室	与手术室的光线条件对应。此设置的最大环境亮度最高。

要选择阅片室：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **校准** > **环境亮度**菜单。
3. 进入**阅片室**子菜单。
4. 选择一个可用阅片室并确认。

连续 ALC

关于连续 ALC

只有在选择了 DICOM 显示功能的情况下才能选择 “ 连续 ALC”。因此，请参阅第 36 页的 “ **显示功能** ” 正确设置显示功能。

启用连续 ALC 将会连续重新计算 DICOM 显示函数，计算中纳入平均环境光线。

选择连续 ALC：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **校准** > **环境亮度**菜单。
3. 进入**连续 ALC** 子菜单。
4. 根据需要选择**启用 / 禁用**并确认。

图像缩放

关于图像缩放

启用图像缩放功能将使单个像素成倍地放大到一个或多个邻近像素，从而使显示的图像大小为原始图像来源视频输入信号的多倍。

只有在您显示器的视频输入信号小于或等于显示器最高分辨率的一半时才能实现图像缩放。

要启用 / 禁用图像缩放：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **图像来源**菜单。
3. 进入**缩放**子菜单。
4. 根据需要选择**启用 / 禁用**并确认。

图像来源选择模式

关于图像来源选择模式

您的 CORONIS FUSION 10MP 显示器会自动检测所连接的视频输入信号的数量，将它们连接到正确的显示侧并对其应用正确的视频设置（分辨率、视频编码模式、刷新率 . . . ）。然而，有时可能需要手动选择在显示屏某一侧显示的视频输入信号，或者自行调节某些视频设置。首先需要从适用于您显示器的以下图像来源选择模式中选择一个：

自动	在此模式下，您的显示器会自动检测所连接的视频输入信号，将它们连接到正确的显示侧并对其应用正确的视频设置（分辨率、视频编码模式、刷新率 . . . ）。 选择此模式时所有视频设置均不可用。
单一图像来源	此模式用于显示和手动配置仅一个连接的视频输入信号。 选择此模式时，所选视频输入信号的视频设置可用。
两个图像来源	此模式用于显示和手动配置两个连接的视频输入信号 （每个显示侧各一个）。 选择此模式时，在显示器各侧所选视频输入信号的视频设置可用。

要选择图像来源选择模式：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **图像来源**菜单。
3. 进入**图像来源选择**子菜单。
4. 选择一个可用的图像来源选择模式并确认。

视频输入信号

关于视频输入信号

您的 CORONIS FUSION 10MP 显示器会自动检测连接的视频输入信号。您可以手动选择图像来源视频输入信号，但前提是您显示器的图像来源选择模式应当设置为允许这么做。请参考第 41 页的 **“ 图像来源选择模式 ”** 执行此操作。

可用于您显示器的输入信号有：

DisplayPort 1	此输入与 **“ 部件、控制器和连接器 ”** 部分中所示的 DisplayPort 1 连接器对应。
DVI 1	此输入与 **“ 部件、控制器和连接器 ”** 部分中所示的 DVI 1 连接器对应。
DisplayPort 2	此输入与 **“ 部件、控制器和连接器 ”** 部分中所示的 DisplayPort 2 连接器对应。
DVI 2	此输入与 **“ 部件、控制器和连接器 ”** 部分中所示的 DVI 2 连接器对应。

要手动选择视频输入信号：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **图像来源** > （左 / 右）**图像来源**菜单。
3. 进入**输入信号**子菜单。
4. 选择一个可用输入信号并确认。

视频编码模式

关于视频编码模式

您的 Coronis Fusion 10MP 显示器会自动检测连接的视频输入信号并应用正确的视频编码设置。您可以手动选择视频编码模式，但前提是您显示器的图像来源选择模式应当设置为允许这么做。请参考第 41 页的 **“ 图像来源选择模式 ”** 执行此操作。

视频编码模式指定如何在视频信号中对色彩和亮度信息进行编码。在消费类显示器中，这通常是由一个有限的 8 位编码机制来完成。然而，您的 Coronis Fusion 10MP 显示器具有 10 位编码功能，能够更好地映射 DICOM 定义的灰度范围。要符合最新医疗指导中提出的指导原则，必须具备这一宽广的范围。

可用于您显示器的视频编码模式如下。

请注意，连接到您显示器的显示控制器不一定支持所有这些视频编码模式。

标准	此模式使用标准的 8 位编码机制。
HDR1	此模式具有依循高动态范围 (HDR) 标准的 10 位视频编码功能，通常用于彩色显示器。

HDR2	HDR2 是 Barco 的特殊模式，具有依循高动态范围 (HDR) 标准的 10 位视频编码功能，但是允许全刷新率 (HDR1 不一定允许)。此模式通常用于彩色显示器。
Dual 10	Dual 10 是 Barco 的特殊 10 位视频编码模式，通常用于灰度显示器，且允许全刷新率。
自动	选择此选项时，您的 CORONIS FUSION 10MP 显示器将自动向连接的视频输入信号分配正确的视频编码设置。

要手动选择视频编码模式：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **图像来源** > （左 / 右）**图像来源**菜单。
3. 进入**视频编码**子菜单。
4. 选择一个可用的视频编码模式并确认。

灰度转换模式

关于灰度转换模式

> 您的 CORONIS FUSION 10MP 显示器会自动检测连接的视频输入信号并应用正确的灰度转换设置。您可以手动选择灰度转换模式，但前提是您显示器的图像来源选择模式应当设置为允许这么做。请参考第 41 页的 **“ 图像来源选择模式 ”** 执行此操作。

灰度转换模式指定如何将显示控制器上生成的色彩转换为您显示器中的灰度。

可用的灰度转换模式有：

使用红色通道	此模式适用于通过红色通道发送灰色的灰度显示器。
使用绿色通道	此模式适用于通过绿色通道发送灰色的灰度显示器。
使用蓝色通道	此模式适用于通过蓝色通道发送灰色的灰度显示器。
使用所有通道	此模式适用于通过红色、绿色和蓝色通道发送灰色的灰度显示器。这是通过标准转换机制来完成的，其中使用了 30% 的红色、59% 的绿色和 11% 的蓝色来生成灰色。

要手动选择灰度转换模式：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **图像来源** > （左 / 右）**图像来源**菜单。
3. 进入**灰度转换**子菜单。
4. 选择一个可用的色彩转换模式并确认。

EDID 定时

关于 EDID 定时

您的 CORONIS FUSION 10MP 显示器 会自动检测连接的视频输入信号并应用正确的定时。您可以手动配置 EDID 定时，但前提是您显示器的图像来源选择模式应当设置为允许这么做。请参考第 41 页的 **“ 图像来源选择模式 ”** 执行此操作。

您的 CORONIS FUSION 10MP 显示器可用以下 EDID 定时：

分辨率	允许手动修改图像来源视频输入信号的分辨率。
刷新率	允许根据连接到您显示器的显示控制器的最大刷新率，来手动选择图像来源视频输入信号的刷新率。
首选方向	允许将图像来源视频输入信号的方向更改为横向、纵向或者让显示器自动分配正确的方向。
色深	可将色深改为 8 或 10 比特。

手动设置 EDID 定时：

1. 打开 OSD 主菜单。
2. 导航至**配置** > **图像来源** > （左 / 右）**图像来源**菜单。
3. 进入**定时**子菜单。
4. 选择**分辨率**、**刷新率**或**色深**。
5. 选择一个可用设置并确认。

显示器信息

关于显示器信息

您显示器的序列号、色彩类型、原始分辨率、固件版本等在 OSD 菜单的专门子菜单中提供。

要检索关于您显示器的信息：

1. 打开 OSD 主菜单。
2. 导航至**关于此显示器**菜单。
3. 进入所需的**显示器**子菜单。

显示器状态

关于显示器状态

OSD 菜单的 “ 状态 ” 子菜单提供关于您显示器当前状态 （运行时间、温度等）、相连图像来源的状态 （视频编码模式、定时等）、您显示器的当前校准状态 （显示函数、亮度、ALC 等）以及激活连接的状态等信息。

要检索您显示器的状态：

1. 打开 OSD 主菜单。
2. 导航至**状态**菜单。
3. 根据需要进入**显示器**、**图像来源**、**校准**或**连接**子菜单。

清洁显示器

前玻璃基板

⚠ 在清洁前玻璃基板前，先将电源线从电源中拔出，以防止在扫过相应区域时无意中激活按键。

使用以下列任一经过测试的产品**稍微**沾湿的海绵、清洁布或柔软织物清洁前玻璃基板：

- Flux
- Windex Glass Plus
- Bohle 玻璃清洁剂
- Mr. Proper
- Pril
- Ajax 玻璃清洁剂
- Sidolin 玻璃清洁剂
- 25% 乙醇溶液 (EtOH)

如果没有以上清洁产品，请使用清水。

⚠ 小心不要损坏或划伤前玻璃基板。注意戒指或其他饰品，同时切勿对前玻璃基板过度施力。

⚠ 请勿将液体直接涂抹或喷洒于前玻璃基板上，因为多余的液体可能会导致内部电子元件损坏。而应将清洁布以液体沾湿使用。

⚠ 请勿使用以下产品：

- 浓度 > 5% 的高浓度酒精 / 溶剂
- 强碱水、强溶剂
- 酸
- 含氟清洁剂
- 含氨清洁剂
- 磨砂清洁剂
- 钢丝绒
- 磨砂海绵
- 刮刀
- 钢丝布

外壳

1 使用一块以获得认可的医疗设备清洁产品**稍微**沾湿的软棉布来清洁外壳。

外壳经测试可使用以下产品：

- Cidex、Betadine
- 酒精 （异丙醇和乙醇）
- 氨基清洁剂 (Windex)
- Aquasonic Gel

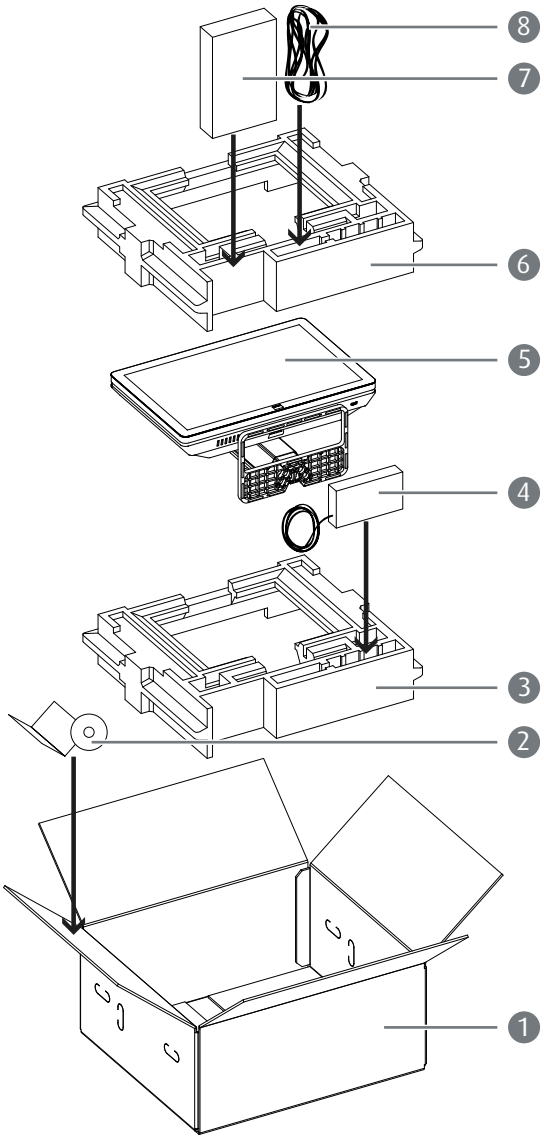
如果没有以上清洁产品，请使用清水。

⚠ 请勿将液体直接涂抹或喷洒于外壳上，因为多余的液体可能会导致内部电子元件损坏。而应将清洁布以液体沾湿使用。

2 用水再次清洁。

3 用干抹布擦干。

重新包装说明



1	箱子	2	系统 CD + 用户指南
3	底部垫层	4	电源
5	CORONIS FUSION 10MP 显示器	6	顶部垫层
7	显示器控制器盒	8	缆线 （视频线、USB 线、电源线）

1. 将空箱子安放在稳固的台面上。
2. 滑动箱内随附的专用袋里的系统 CD 和用户指南。
3. 在箱中放置底部垫层。
4. 将电源置于底部垫层的专设凹陷处。
5. 将 CORONIS FUSION 10MP 显示器放在其原始的包装袋中，并让其面板朝上置于箱中。
6. 将顶部垫层置于显示器上方。
7. 如适用，将显示控制器盒滑动至垫层上专设的凹陷处。
8. 将所有缆线 （视频线、USB 线、电源线）置于其原始包装袋中，并将其滑动至垫层上专设的凹陷处。
9. 关闭并密封包装箱。

重要信息

安全信息

一般建议

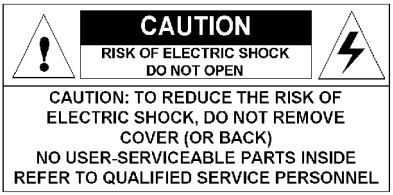
在操作显示器之前仔细阅读安全与操作说明。

妥善保管安全与使用说明书以供日后参考。

遵照显示器及使用说明手册中的所有警告信息进行操作。

遵循所有操作和使用说明。

电击



保护类型 （电气）：

带外部电源的显示器：I 类设备

安全程度 （易燃麻醉剂混合物）：

设备不适合在有易燃麻醉剂与空气、氧气或氧化亚氮混合物的环境中使用。

非患者护理设备

设备主要在医疗机构中使用，适用于不可能接触患者的环境。

电源连接 — 带 24 VDC 外部电源的显示器

- 电源要求: 显示器必须使用附带的通过医疗认证的 24 V 直流 SELV（安全特低电压）电源供电。
- 通过医疗认证的直流电源必须由交流总线电压 （保护性接地端子）供电。

瞬态过电压

如果设备长时间不使用，请将设备与电源插座断开连接，以免因瞬态电压造成损坏。

若要完全切断设备的电源，请将电源插头从电源插座上拔离。

电源线：

- 采用 UL 认证的可分离型电源线，规格为 3 芯、SJ 型或同等类型、最小 18 AWG、最小额定电压 300 V，同时配备医院级 120V 用 5-15P 插头或者 240V 用 6-15P 插头结构。
- 切勿使壁装电源插座和延长线过载，以免造成火灾或电击。
- 电源导线保护 （美国：电源线）：应将电源线放在不易被人踩到或被上方或靠着的物品挤压的地方，并特别注意电源线的插头和插座位置。

防水防潮

切勿让显示器淋雨或受潮。

切勿在靠近水源的地方使用显示器 – 例如浴缸、脸盆、游泳池、洗碗池、洗衣盆旁边或潮湿的地下室中。

通风

切勿盖住或堵塞显示器外壳上的通风孔。将显示器安放在壁橱或其他密闭位置时，注意在显示器与壁橱侧面之间要保留一定的空隙。

安装

显示器应放置在可支撑至少三台显示器重量的平整、结实而稳固的表面上。如果放置在不稳定的推车或支架上，显示器可能会掉落，从而对儿童或成人造成严重的人身伤害，并造成设备严重损坏。

本装置符合：

CE0120 （MDD 93/42/EEC、A1:2007/47/EC IIb 类产品）、CE - 2004/108/EC、CE - 93/42/EEC、A1:2007/47/EC II b 类产品、IEC 60950-1:2005 + A1:2009 （第二版）、IEC 60601-1 第二版：1988 + A1:1991 + A2:1995、UL 60601-1 第一版、CAN/CSA-C22.2 NO.601.1-M90:2005、IEC 60601-1:2005 + A1:2012、ANSI/AAMI ES 60601-1:2005 + C1:2009 + A1:2012、CAN/CSAC22.2 No. 60601-1-08:2008、DEMKO - EN 60601-1:2006、EN 60601-1-2:2007、CCC - GB9254-2008 + GB4943-2001 + GB17625.1-2003、KC、VCCI、FCC B 类、ICES-001 B 级、FDA 510K、RoHS

CL. 1.7.2 标准在北欧国家的语言偏差：

芬兰语：“Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan”
挪威语：“Apparatet må tilkoples jordet stikkontakt”
瑞典语：“Apparaten skall anslutas till jordat uttag”

环保信息

弃置信息 （废弃电气电子设备）

产品上的这一标志表明，根据管辖电气电子设备废物的 2002/96/EC 欧洲指令，本产品不得与其他城市垃圾一同弃置。请将您的废弃设备交给指定的回收点，以便再利用废弃电气电子设备。为防止任意的废物处置可能对环境或人体健康造成的危害，请负责地将这些设备与其他类型的废物分开并回收利用，以促进物质资源的可持续利用。

有关本产品回收的更多信息，请联系您当地的市政办公室、城市废物处理服务机构或您购买产品的商店。

含汞说明

本 Barco 产品是由可能含汞的材料组成，这些材料必须根据地方、州或省、或者国家法规弃置或回收：

- 在本系统中，监视器显示屏中的背光灯含汞。

土耳其 RoHS 合规性

土耳其共和国：符合 EEE （电气电子设备）法规
Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur

中国大陆 RoHS (Chinese Mainland RoHS)

根据中国大陆 “ 电子信息产品污染控制管理办法 ” （也称为中国大陆 RoHS），以下部分列出了 Barco 产品中可能包含的有毒和 / 或有害物质的名称和含量。中国大陆 RoHS 指令包含在中国信息产业部 MCV 标准：“ 电子信息产品中有毒物质的限量要求 ” 中。

According to the ″China Administration on Control of Pollution Caused by Electronic Information Products″ (Also called RoHS of Chinese Mainland), the table below lists the names and contents of toxic and/or hazardous substances that Barco's product may contain. The RoHS of Chinese

Mainland is included in the MCV standard of the Ministry of Information Industry of China, in the section "Limit Requirements of toxic substances in Electronic Information Products".

零件项目(名称) Component Name	有毒有害物质或元素 Hazardous Substances or Elements					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印制电路配件 Printed Circuit Assemblies	X	0	0	0	0	0
液晶面板 LCD panel	X	X	0	0	0	0
外接电（线）缆 External cables	X	0	0	0	0	0
内部线路 Internal wiring	0	0	0	0	0	0
金属外壳 Metal enclosure	0	0	0	0	0	0
塑胶外壳 Plastic enclosure	0	0	0	0	0	0
散热片（器） Heatsinks	0	0	0	0	0	0
风扇 Fan	0	0	0	0	0	0
电源供应器 Power supply unit	X	0	0	0	0	0
文件说明书 Paper manuals	0	0	0	0	0	0
光盘说明书 CD manual	0	0	0	0	0	0

O：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。
O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.

X：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。
X： 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363 2006 标准规定的限量要求。

在中国大陆销售的相应电子信息产品（EIP）都必须遵照中国大陆《电子信息产品污染控制标识要求》标准贴上环保使用期限（EFUP）标签。Barco 产品所采用的 EFUP 标签（请参阅实例，徽标内部的编号使用于制定产品）基于中国大陆的《电子信息产品环保使用期限通则》标准。

All Electronic Information Products (EIP) that are sold within Chinese Mainland must comply with the "Electronic Information Products Pollution Control Labeling Standard" of Chinese Mainland, marked with the Environmental Friendly Use Period (EFUP) logo. The number inside the EFUP logo that Barco uses (please refer to the photo) is based on the "Standard of Electronic Information Products Environmental Friendly Use Period" of Chinese Mainland.

合规信息

使用说明

CORONIS FUSION 10MP 显示器 (MDCG-10130) 适合在数字影像的显示和查看中使用，包括乳腺 X 线摄影图像，由经过专业训练的执业医师用于检查和分析。

注意 （美国）：联邦法律规定此设备仅由医师销售或在其指示下销售。（有关详细信息和豁免规定请参阅美国联邦法规第 21 篇 801 D 部分）

FCC B 类

本设备符合 FCC （美国联邦通信委员会）规定第 15 部分。设备操作受以下两个条件制约：(1) 本设备不得造成有害干扰，并且 (2) 本设备必须能够抵抗任何干扰，包括可能引起不必要操作的干扰。

经检测，本设备符合 FCC 规定第 15 部分中有关 B 类数字设备的限制。这些限制旨在提供合理保护，防止设备在住宅安装环境中使用时产生有害干扰。本设备会产生、利用和辐射射频能量，如果未根据说明书安装和使用，可能会对无线电通信造成有害干扰。但是我们不保证在特定安装环境下本设备不会产生干扰。如果本设备确实对无线电或电视接收造成干扰 （通过开关设备即可判断），建议用户采取以下一项或多项措施来排除干扰：

- 调整接收天线的方向或位置。
- 使设备远离接收装置。
- 将设备插入另一线路的插座中，与接收装置连接的线路分开。
- 咨询代理商或有经验的无线电 / 电视技术员寻求帮助。

加拿大通告

此 ISM 设备符合加拿大 ICES-001。
Cet appareil ISM est conforme à la norme NMB-001 du Canada.

EMC 通知

除电源外，对外接电缆或其他附件的使用并没有特定要求。

安装设备后仅可使用随附的电源或正规制造商提供的备件。使用其他电源或备件会导致设备的抗扰度下降。

电磁辐射

CORONIS FUSION 10MP 显示器 可在以下指定的电磁环境中使用。

CORONIS FUSION 10MP 显示器 的客户或用户应确保仅在此类环境中使用该产品。

辐射测试	符合性	电磁环境 — 指南
射频辐射 CISPR 11	第 1 组	CORONIS FUSION 10MP 显示器 仅使用射频能量执行内部功能。因此，其射频辐射非常低，不大可能对附近的电子设备造成任何干扰
射频辐射 CISPR 11	B 类	CORONIS FUSION 10MP 显示器适合在各种设施内使用，包括家用设施以及直接连接到为民用建筑供电的公共低压供电网的设施。
谐波辐射 IEC 61000-3-2	D 类	
电压波动 / 闪变辐射 IEC 61000-3-3	符合	

在辐射和对周围设备的干扰方面，CORONIS FUSION 10MP 显示器 符合相应的医疗 EMC 标准。设备操作受以下两个条件制约：(1) 本设备不得造成有害干扰，并且 (2) 本设备必须能够抵抗任何干扰，包括可能引起不必要操作的干扰。

开关设备可判断干扰情况。

如果本设备确实会对周围设备造成有害干扰或受到周围设备的有害干扰，建议用户采取以下一项或多项措施来排除干扰：

- 调整接收天线或设备的方向或位置。
- 使设备远离接收装置。
- 将设备插入另一线路的插座中，与接收装置连接的线路分开。
- 咨询代理商或有经验的技术员寻求帮助

电磁抗扰性

CORONIS FUSION 10MP 显示器可在以下指定的电磁环境中使用。CORONIS FUSION 10MP 显示器 的客户或用户应确保仅在此类环境中使用该产品。

抗扰性测试	IEC 60601 测试电平	合规性级别	电磁环境 — 指南
静电放电 (ESD) IEC 61000-4-2	接触放电 ± 6kV 空气放电 ± 8kV	接触放电 ± 6kV 空气放电 ± 8kV	地面应为木材、混凝土或瓷砖材质。若地板采用合成材料，则相对湿度至少应为 30%
电快速瞬变 / 脉冲群 IEC 61000-4-4	供电线路 ± 2kV 输入 / 输出线路 ± 1kV	供电线路 ± 2kV 输入/输出线路 ± 1kV	供电质量须达到典型的商业或医院环境的标准
电涌 IEC61000-4-5	线间 ± 1 kV 线路接地 ± 2 kV	线间 ± 1 kV 线路接地 ± 2 kV	供电质量须达到典型的商业或医院环境的标准
供电输入线的电压骤降、瞬断和渐变 IEC 61000-4-11	<5% U_T (U_T 骤降超过 >95%)，半个周期 40% U_T (U_T 骤降 60%)，5 个周期 70% U_T (U_T 骤降 30%)，25 个周期 < 5% U_T (U_T 骤降超过 95%)，5 秒钟	<5% U_T (U_T 骤降超过 >95%)，半个周期 40% U_T (U_T 骤降 60%)，5 个周期 70% U_T (U_T 骤降 30%)，25 个周期 < 5% U_T (U_T 骤降超过 95%)，5 秒钟	供电质量须达到典型的商业或医院环境的标准 如果 CORONIS FUSION 10MP 显示器 用户需要在主电源中断时继续使用设备，建议使用不间断电源或电池为 CORONIS FUSION 10MP 显示器 收发器供电。

U_T 是应用测试电平之前的交流电源电压

抗扰性测试	IEC 60601 测试电平	电平	电磁环境 — 指南
工频（50/60 Hz）磁场 IEC 61000-4-8	3 A/m	不适用	工频磁场应达到典型商用或医院环境中典型地点的水平。
传导射频 IEC 61000-4-6 辐射射频 IEC 61000-4-3	3 Vrms 150 kHz 至 80 MHz 3 V/m 80 MHz 至 2.5 GHz	3 V 3 V/m	使用便携式和移动式射频通信设备时，这些设备与 Coronis Fusion 10MP 显示器收发器的任何部分（包括缆线）之间的距离不应小于根据收发器频率适用的公式计算出的推荐间距。 建议间距 $d = 1.2\sqrt{P}$ $d = 1.2\sqrt{P}$ 80 MHz 至 800 MHz $d = 2.3\sqrt{P}$ 800 MHz 至 2.5 GHz 其中 P 表示发射器制造商规定的发射器最大额定输出功率，单位为瓦特（W），d 表示推荐间距，单位为米（m）。 由电磁现场测量确定的固定射频收发器的磁场强度，a 应小于每个频率范围的合规性级别。b 标示符号的设备可能对周围设备产生干扰：

a 理论上无法准确预测固定发射器的磁场强度，例如无线（蜂窝式 / 无绳式）电话和陆地移动无线电的基站、业余无线电、AM/FM 无线电广播和电视广播。若要评估固定射频收发器的电磁环境，应考虑采用电磁现场监测方法。如果在 Coronis Fusion 10MP 显示器 的使用位置测得的磁场强度超过上述适用的射频合规性水平，则应验

证 CORONIS FUSION 10MP 显示器 是否能够正常工作。如果观察到性能异常，则需要采取额外的措施，例如重新定向 CORONIS FUSION 10MP 显示器 或将其移到其他位置。

b 在频率范围 150 kHz 至 80 MHz 之间时，磁场强度应低于 3 V/m。

频率为 80MHz 和 800MHz 时，适用高频范围。

这些指导说明不一定适用于所有的情况。电磁传播会因为建筑、物体和人体的吸收和反射而受到影响。

建议间距

CORONIS FUSION 10MP 显示器 适于在辐射射频干扰受到控制的电磁环境中使用。根据通信设备的最大输出功率，CORONIS FUSION 10MP 显示器的用户或客户可以按照以下建议保持便携和移动射频通信设备 （发射器）与 CORONIS FUSION 10MP 显示器

之间的最小距离以避免电磁干扰。

发射器的最大额定输出功率 W	**根据发射器频率计算出的间距**		
	150kHz 至 80MHz $d = 1.2\sqrt{P}$	**80MHz 至 800MHz** $d = 1.2\sqrt{P}$	**800MHz 至 2.5GHz** $d = 2.3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

对于最大额定输出功率未包含在上表中的发射器，可以使用适用于发射器频率的等式估算以米为度量单位的建议间距 d (m)。按照发射器制造商规定，P 为以瓦特 (W) 为单位的发射器最大额定输出功率。

频率为 80MHz 和 800MHz 时，采用高频范围间距。

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标志说明

在显示器或电源上，您可以看到以下符号 （非限制性列表）：

CE 0120	表示符合 93/42/EEC 指令的基本要求
FC	表示符合 FCC 规定第 15 部分 （A 类或 B 类）
UL 或者 CLASSIFIED UL	表示显示器通过 UL 法规认证
c UL us 或者 CLASSIFIED c UL us	表示显示器通过 c-UL 法规认证
D	表示显示器通过 DEMKO 法规认证
CCC	表示显示器通过 CCC 法规认证
VCCI	表示显示器通过 VCCI 法规认证
	表示显示器上的 USB 连接器
	表示生产日期
15 35	表示显示器按规格运行的温度限制
SN	表示显示器序列号
	参阅操作说明

表示根据欧洲 WEEE（废弃电气电子设备）指令，此装置必须回收利用，不得投入垃圾箱。

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技术规格

产品缩写	MDCG-10130
屏幕技术	TFT AM LCD 双域 IPS
活动屏幕尺寸 （对角线）	761 mm (29.6”)
活动屏幕尺寸 （水平 x 垂直）	645 x 403 mm (25.4 x 15.9 “)
纵横比 （水平：垂直）	16:10
分辨率	原生 10MP (4096 x 2560) 可配置为 2 x 5MP (2048 x 2560)
像素间距	0.1575 mm
彩色成像	否
灰度成像	是
灰度数量（LUT 输入 /LUT 输出）	1024 个灰度级 (10/12)
可视角度 （水平、垂直）	170°
均匀亮度技术 (ULT)	是
每像素均匀度 (PPU)	否
环境光线补偿 (ALC)	是
背光输出稳定 (BLOS)	是
I-Guard	是
最大亮度	1250 cd/m² （显示器面板典型值）
DICOM 校准亮度 （ULT 关闭）	500 cd/m² （显示器面板典型值）
对比度 （典型）*	950:1 （显示器面板典型值）
响应时间 (Tr + Tf)	35 ms
扫描频率 （水平；垂直）	30-150 kHz； 15-80 Hz
外壳颜色	黑色 / 银灰色

视频输入信号	DVI-D 双链路 (2x) / DisplayPort (2x)
视频双向端口	不适用
USB 端口	1 个 upstream （终点），3 个 downstream
USB 标准	2.0
电源要求 （标称）	100-240V
功耗 （标称）	102W
省电模式	是
电源管理	DVI-DMPM / DP-DMPM
点时钟	280 MHz
OSD 语言	英语、德语、法语、荷兰语、西班牙语、意大利语、葡萄牙语、波兰语、俄语、瑞典语、中文（简体）、日语、韩语、阿拉伯语
带支架尺寸 （宽 x 高 x 厚）	纵向：不适用 横向：731 x 580~670 x 270 mm
不带支架尺寸（宽 x 高 x 厚）	纵向：不适用 横向：731 x 485 x 125 mm
包装尺寸 （宽 x 高 x 厚）	869 x 764 x 400 mm
带支架净重	24.2 kg
不带支架净重	17.7 kg
带支架包装净重	33.1 kg
不带支架包装净重	不适用
高度调节范围	96 mm
倾斜	-5° / +25°
旋转	-30° / +30°
转动	不适用
安装标准	VESA (100 mm)
屏幕保护	防护性、非反光玻璃罩

推荐模态	CT （计算机化断层显象）、MR （磁共振成像）、US （超声扫描显像）、DR （数字化放射成像）、CR （计算机化放射成像）、NM （核医学成像）、胶片
认证	CE0120 （MDD 93/42/EEC、A1:2007/47/EC IIb 类产品）、CE - 2004/108/EC、CE - 93/42/EEC、A1:2007/47/EC II b 类产品、IEC 60950-1:2005 + A1:2009 （第二版）、IEC 60601-1 第二版：1988 + A1:1991 + A2:1995、UL 60601-1 第一版、CAN/CSA-C22.2 NO.601.1-M90:2005、IEC 60601-1:2005 + A1:2012、ANSI/AAMI ES 60601-1:2005 + C1:2009 + A1:2012、CAN/CSAC22.2 No. 60601-1-08:2008、DEMKO - EN 60601-1:2006、EN 60601-1-2:2007、CCC - GB9254-2008 + GB4943-2001 + GB17625.1-2003、KC、VCCI、FCC B 类、ICES-001 B 级、FDA 510K、RoHS
提供的附件	用户指南 快速安装单 视频电缆 （2 x DVI 双链路、2 x DisplayPort） 主电缆 （英国、欧洲 [CEBEC/KEMA]，美国 [UL/CSA；适配插头 NEMA 5-15P]，中国 [CCC]） USB 2.0 电缆 外部电源
可选附件	不适用
QA 软件	MediCal QAWeb
每托盘单位	不适用
托盘尺寸	不适用
保修	5 年
工作温度	0° C 至 40° C （规格内 15° C 至 35° C）
贮存温度	-20° C 至 60° C
工作湿度	8% - 70% （无冷凝）
贮存湿度	5% - 95% （无冷凝）
工作海拔	2000 m

* 在黑暗阅片室条件下 (0 lux)

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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